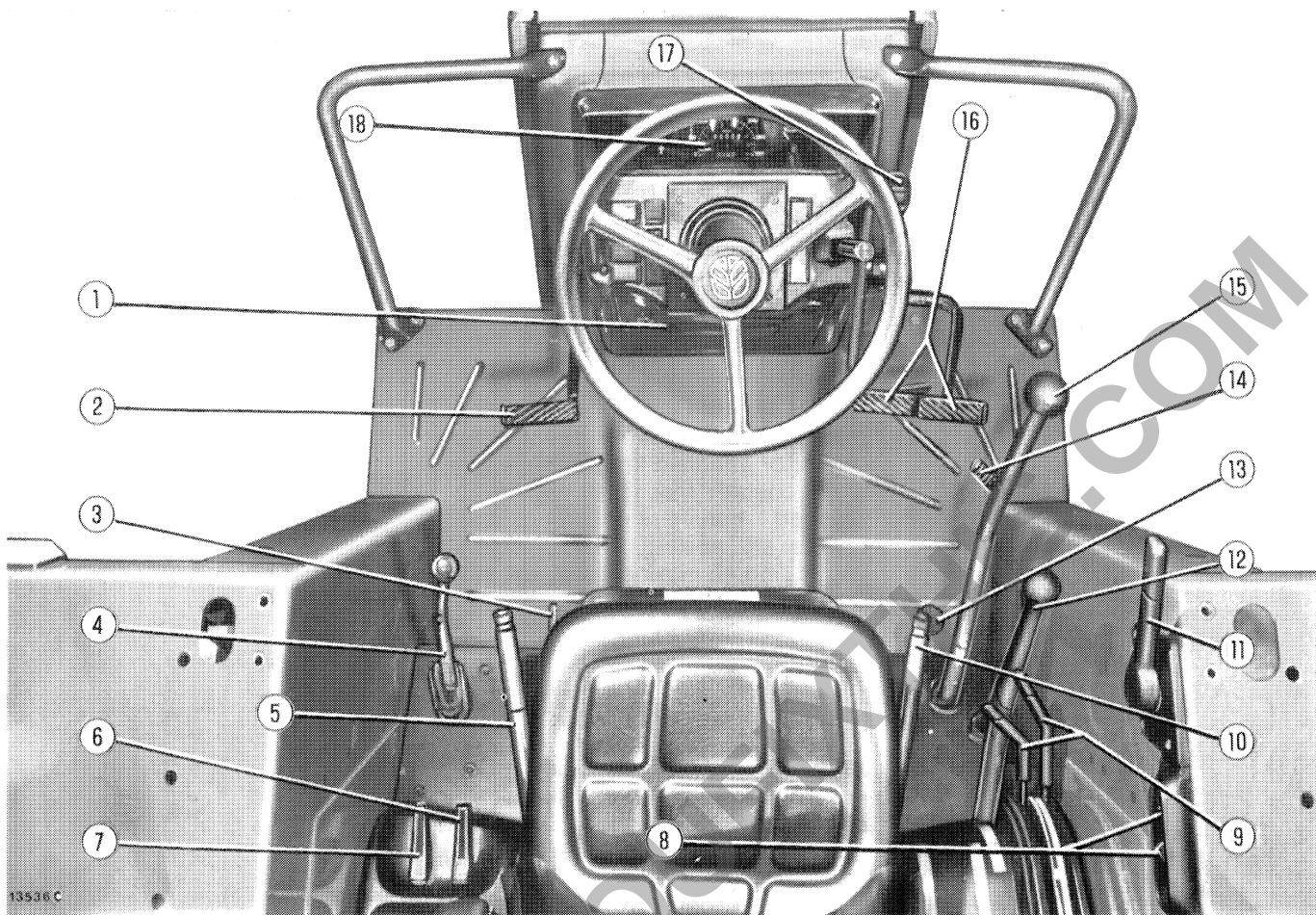
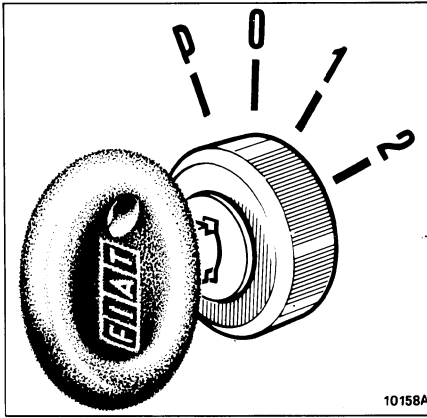






Starter Switch

- 0 = OFF** (key removable)
Engine shut off, automatic engagement of fuel delivery cut-out device.
- 1 = ON**
Engine starting circuit energized. Warning indicators and instruments activated. Various users energized.
- 2.** Starting (when released key springs back to position 1).
- P.** Parking lights, instrument lights, cigar lighter indicator and work light switch (key removable).

⚠ WARNING ⚠

- *Never start or run tractor in a closed area.*
- *Ensure all controls are in neutral position before starting.*
- *Operate controls from operator's seat only.*
- *Switch off engine before carrying out any service or maintenance operations.*
- *Use steps and grab handles for getting on and off the tractor.*
- *Ensure that guards are correctly mounted.*
- *When driving on the road, always signal when stopping, turning or reducing speed.*
- *Use appropriate slow moving vehicle signs when operating on public roads.*

OPERATION

ENGINE STARTING

- a.** Before starting, check sump oil level (see page 17) with tractor on level ground and starter switch in position 1.
- b.** After extended inactivity or when starting in cold weather, prime fuel pump through 20 strokes and run engine for 5 to 10 seconds with injection pump in fuel shut-off condition.
- c.** Declutch to activate starter inhibitor switch.
- d.** Move throttle lever to mid-stroke.
- e.** Turn starter switch key to position 2 and release as soon as engine fires.

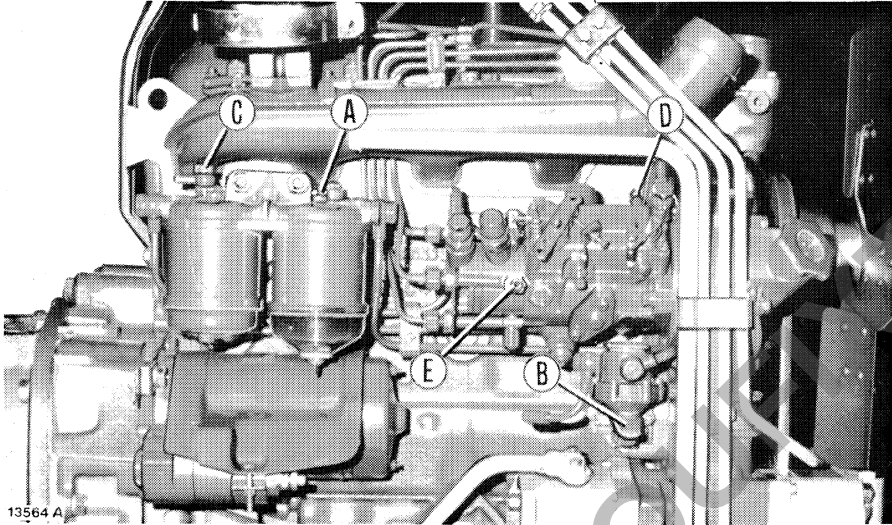
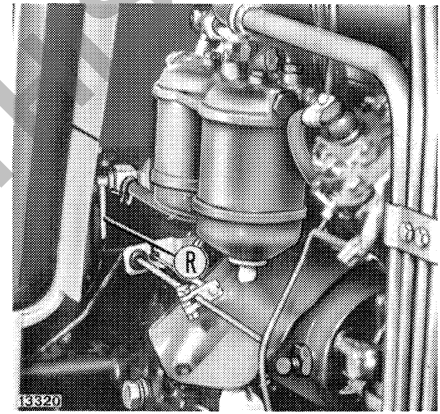
MAINTENANCE

Fuel System Bleeding

Air may enter fuel lines after tractor has been out of commission for some time, during filter removal and line disconnection, or if fuel tank is allowed to become empty. The presence of air in fuel system makes for difficult engine starting and should be eliminated with a full tank and valve **R** open.

CAV PUMP ENGINE

1. Back off plug **A** through two turns and pump lever **B** until fuel issuing from plug orifice is free from air bubbles. Retighten plug.
2. Repeat on plug **C**.
3. Back off screw **D** two turns, slacken one of injector connections **E** and crank engine through starter until fuel flowing from fuel lines is free from air bubbles. Retighten injector connection **E** but not screw **D**.
4. Start engine and retighten screw **D** when issuing fuel is free from air bubbles.



Maintenance Schedule (70-90/80-90)

Numbers correspond to those of operations listed in the attached Servicing Chart.

◇ ADJUSTMENTS

- 6. Air conditioner compressor drive belts.
Deflection = 12 to 13 mm (½ in) applying a 78 to 98 N (8 to 10 kg or 18 to 22 lb) load.
- 11. Fan belts. Deflection = 10 to 11 mm (½ in) applying a 78 to 98 N (8 to 10 kg or 18 to 22 lb) load.
- 12. Master clutch. Pedal free travel = 190 mm or 7 ½ in (170 mm or 6 ¾ in for tractors with cab).
- 13. P.T.O. clutch. Withdrawal lever pin travel = 3.5 mm or 0.138 in.
- 38. Parking brake grip free travel = 3 clicks.
- 45. Engine valves.
Clearance 0.25 mm or 0.010 in inlet, and 0.35 mm or 0.014 in exhaust.

- 46. Fuel injectors. Release pressure 230 to 238 bar (235 to 243 kg/cm² or 3,335 to 3,525 psi).

- 51. Starter.

△ LEVEL CHECKS

- 3. Radiator expansion tank.
- 4. Windshield washer fluid reservoir.
- 5. Battery (see page 60).
- 7. Brake fluid reservoir.
- 8. Power steering reservoir.
- 9. Oil-bath air cleaner.
- 14. Engine sump.
- 31. Front final drive oil (DT).
- 33. Front axle oil (DT).
- 38. Rear transmission and lift oil.

□ FLUID CHANGE

- 25. Engine sump.
- 44. Power steering.
- 48. Rear transmission and lift oil.
- 52. Front final drive oil (DT).
- 53. Front axle oil (DT).

△ FILTER CHANGE

- 6. Receiver drier.
- 28. First fuel filter.
- 29. Lift oil filter.
- 30. Dry air cleaner inner cartridge.
- 39. Engine oil filter.
- 40. Second fuel filter.
- 41. Dry air cleaner inner and outer cartridge.
- 42. Comfort cab air filter.
- 43. Supercomfort cab air filter.

SPECIFICATIONS

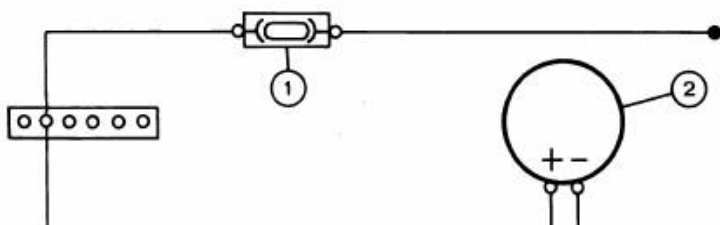
DIMENSIONS - Model 70-90

Front tire size 7.50-18, rear tire size
13.6/12-38

WEIGHTS - Model 70-90



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WIRING DIAGRAM, Comfort cab version

Differences from basic diagram attached.

● To fuse 7 on fuse box.

4. 25A fuse for windshield wiper

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QUICK REFERENCE INDEX

	Page
Service	4
Tractor Storage	6
Tractor Identification Data	7
Safety Precautions	8
Control and Instruments	15
Operation	20
Guide to Lift Operation	31
Servicing Schedule	55
Electrical System	60
Specifications	63
70-90 DT and 80-90 DT Tractors	69
Splitter-Reverser Version	75
No-Spin Version	77
40 kph Version	80
Heated and Ventilated Comfort Cab Version	85
Heated and Ventilated Supercomfort Cab Version	91
Air Conditioned Supercomfort Cab Version	99
Contents	107
Servicing Chart	attached
Wiring Diagram	attached

Safety Precautions

THIS SYMBOL IS YOUR SAFETY ALERT SIGN

It means:



**«ATTENTION - DANGER
YOUR SAFETY IS INVOLVED»**



Read and heed all safety instructions carrying the signal words **WARNING, CAUTION** and **DANGER**.

GENERAL

■ You tractor was designed with safety very much in mind. However, there is no real substitute for caution and attention in preventing accidents. Once an accident has happened it is too late to think about what you should have done.

■ Remember that your tractor has been designed exclusively for agricultural use. Any other application must first be authorized by the manufacturer.

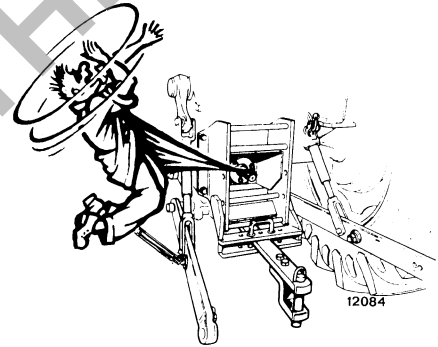
■ Read this manual thoroughly before attempting to start, operate, service or refuel the tractor. A few minutes reading will save time and trouble later.

■ Read and heed all machine-mounted safety decals before refueling or servicing the machine and replace any missing decals.

■ Tractor should be operated only by responsible persons suitably trained and duly authorized.

■ Keep a first aid kit handy.

■ Do not work with loose garments that could get caught in moving parts. Check that all rotating parts connected to the PTO shaft are well shielded.



A. Variospeed (sensitivity control lever).

4-position lever is used to vary sensitivity when working with draught and combined draught and position control.

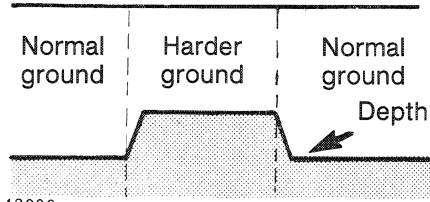
— Forward (+) = Longer reaction times (low sensitivity)

— Back (–) = Shorter reaction times (high sensitivity)

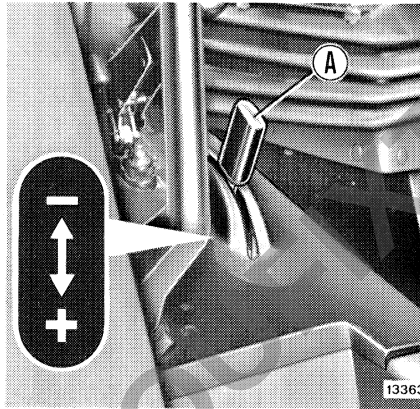
With low sensitivity, attachment weight is transferred to rear wheels more slowly, thus increasing traction considerably.

Moreover, slower reaction times eliminate jolts.

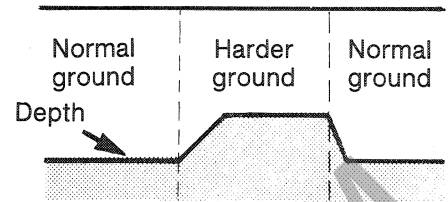
ARIOSPEED LEVER BACK (–)



The lift employs the axle lubricating oil, fluid pressure being obtained by means of a valve gear driven hydraulic pump.



ARIOSPEED LEVER FORWARD (+)



The lift senses the load on the lower links through the sensing bar and performs the following functions:

- Position control.
- Draft control.
- Float.
- Combined draft and position control.

The combined operation of control levers **D** and **E** (page 31), enables the operator to select the mode of operation most suited to the work in hand.

Consult Guide to Lift Operation (page 31) for selecting type of operation in relation to type of implement used.

TRACTOR WITH CREEPER AND REVERSER

Gear	Rear Tires											
	Forward						Reverse					
	Mod. 70-90		Modd. 70-90/80-90				Mod.70-90		Modd. 70-90/80-90			
	16.9/14-30		18.4/15-30		13.6/12-38 16.9/14-34		16.9/14-30		18.4/15-30		13.6/12-38 16.9/14-34	
	kph	mph	khp	mph	kph	mph	kph	mph	kph	mph	kph	mph
1st Low creeper	0.4	0.25	0.4	0.25	0.4	0.25	—	—	—	—	—	—
2nd » »	0.6	0.37	0.6	0.37	0.6	0.37	—	—	—	—	—	—
3rd » »	0.7	0.43	0.7	0.43	0.7	0.43	—	—	—	—	—	—
4th » »	1.1	0.68	1.1	0.68	1.2	0.74	—	—	—	—	—	—
1st Normal creeper	0.9	0.56	0.9	0.56	0.9	0.56	—	—	—	—	—	—
2nd » »	1.3	0.80	1.4	0.87	1.4	0.87	—	—	—	—	—	—
3rd » »	1.6	0.99	1.7	1.05	1.7	1.05	—	—	—	—	—	—
4th » »	2.6	1.61	2.7	1.67	2.8	1.74	—	—	—	—	—	—
1st Low	2.0	1.24	2.1	1.30	2.2	1.36	2.1	1.30	2.0	1.24	2.1	1.30
2nd »	3.2	1.98	3.3	2.05	3.4	2.10	3.0	1.86	3.1	1.92	3.2	1.98
3rd »	3.9	2.42	4.0	2.48	4.1	2.54	3.7	2.29	3.8	2.36	3.9	2.42
4th »	6.2	3.84	6.4	3.97	6.6	4.10	5.9	3.66	6.1	3.78	6.3	3.90
1st Normal	4.8	2.98	5.0	3.10	5.1	3.16	4.5	2.79	4.7	2.92	4.9	3.04
2nd »	7.4	4.59	7.6	4.70	7.9	4.90	7.0	4.34	7.3	4.53	7.5	4.65
3rd »	9.0	5.58	9.4	5.83	9.7	6.00	8.6	5.33	8.9	5.52	9.2	5.70
4th »	14.4	8.93	14.9	9.24	15.4	9.55	13.7	8.49	14.2	8.80	14.6	9.05
1st High	11.3	7.00	11.7	7.25	12.1	7.50	10.7	6.63	11.1	6.88	11.5	7.13
2nd »	17.4	10.78	18.0	11.16	18.6	11.53	16.5	10.23	17.1	10.60	17.7	10.97
3rd »	21.3	13.20	22.0	13.64	22.8	14.14	20.2	12.52	20.9	12.96	21.7	13.45
4th »	33.9	21.00	35.1	21.76	36.3	22.50	32.2	19.96	33.3	20.65	34.5	21.40

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